



SSC CHSL 17 March 2018 Afternoon Shift

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Instructions

For the following questions answer them individually

Question 1

Find the value of $(216)^{\frac{2}{3}} + (36)^{-\frac{1}{2}}$

- A $\frac{216}{6}$
 B $\frac{218}{6}$
 C $\frac{215}{6}$
 D $\frac{217}{6}$

Answer: D

Explanation:

$$\text{Expression} = (216)^{\frac{2}{3}} + (36)^{-\frac{1}{2}}$$

$$= (6^3)^{\frac{2}{3}} + (6^2)^{-\frac{1}{2}}$$

$$= 6^2 + 6^{-1}$$

$$= 36 + \frac{1}{6}$$

$$= \frac{(216+1)}{6} = \frac{217}{6}$$

=> Ans - (D)

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Question 2

Find the number of prime factor of 20790.

- A 7
 B 9
 C 5
 D 13

Answer: C

Explanation:

$$\text{Prime factorisation of } 20790 = (2)^1 \times (3)^3 \times (5)^1 \times (7)^1 \times (11)^1$$

Thus, number of prime factors = 5

=> Ans - (C)

Question 3

If $p = \sqrt{72 - \sqrt{72 - \sqrt{72 - \sqrt{72 - \dots \infty}}}}$, then find the value of $2p^2 + 1$.

- A -129
 B -163

C 129

D 163

Answer: C

Explanation:

$$\text{Expression : } p = \sqrt{72 - \sqrt{72 - \sqrt{72 - \sqrt{72 - \dots\infty}}}}$$

$$\Rightarrow p = \sqrt{72 - p}$$

Squaring both sides, we get :

$$\Rightarrow p^2 = 72 - p$$

$$\Rightarrow p^2 + p - 72 = 0$$

$$\Rightarrow p^2 + 9p - 8p - 72 = 0$$

$$\Rightarrow p(p + 9) - 8(p + 9) = 0$$

$$\Rightarrow (p + 9)(p - 8) = 0$$

$$\Rightarrow p = -9, 8$$

But p cannot be negative, thus $p = 8$

To find : $2p^2 + 1$

$$= 2(8)^2 + 1 = 128 + 1 = 129$$

\Rightarrow Ans - (C)

Question 4

If $X + Y + Z = 6$ and $XY + ZY + ZX = 10$, then find the value of $X^3 + Y^3 + Z^3 - 3XYZ$.

A 16

B 26

C 36

D 46

Answer: C

Explanation:

$$\text{Given : } xy + yz + zx = 10 \text{ -----(i)}$$

$$\text{Also, } x + y + z = 6 \text{ -----(ii)}$$

Squaring both sides, we get :

$$\Rightarrow (x + y + z)^2 = (6)^2$$

$$\Rightarrow (x^2 + y^2 + z^2) + 2(xy + yz + zx) = 36$$

Substituting value from equation (i),

$$\Rightarrow x^2 + y^2 + z^2 + 2(10) = 36$$

$$\Rightarrow x^2 + y^2 + z^2 = 36 - 20 = 16 \text{ -----(iii)}$$

To find : $x^3 + y^3 + z^3 - 3xyz$

$$= (x + y + z)[(x^2 + y^2 + z^2) - (xy + yz + zx)]$$

Substituting values from equations (i), (ii) and (iii),

$$= (6)(16 - 10)$$

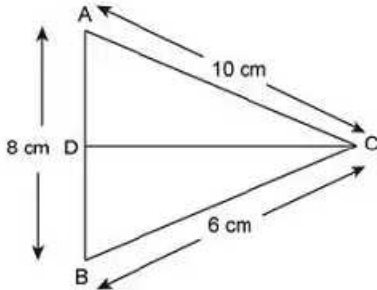
$$= 6 \times 6 = 36$$

=> Ans - (C)

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Question 5

In a triangle ABC, a line is drawn from C which bisects AB at point D. Find the ratio of area of the triangles DBC and ABC.



A 1:1

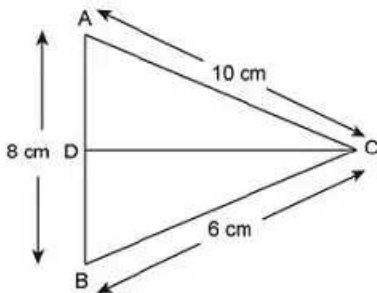
B 2:1

C 1:2

D 1:3

Answer: C

Explanation:



Given : CD bisects AB, => $AD = DB = \frac{8}{2} = 4$ cm

To find : $\frac{ar(\triangle DBC)}{ar(\triangle ABC)} = ?$

Solution : Clearly $\triangle ABC$ is a right angled triangle, $\therefore (10)^2 = (8)^2 + (6)^2$

Thus, AC is the hypotenuse and $\triangle ABC$ is right angled at B.

=> AB = 8 cm is the height of triangle

$$\therefore \frac{ar(\triangle DBC)}{ar(\triangle ABC)} = \frac{\frac{1}{2} \times (DB) \times (BC)}{\frac{1}{2} \times (AB) \times (BC)}$$

$$= \frac{4 \times 6}{8 \times 6} = \frac{1}{2}$$

=> Ans - (C)

Question 6

The area of a right angled triangle ABC, right angled at B, is 46 sq units. A median is drawn from A to BC which intersects at D. Find the area (in sq. units) of triangle ABD.

A 12

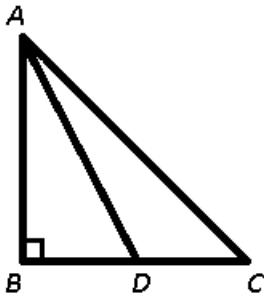
- B 23
- C 46
- D 88

Answer: B

Explanation:

Note :- A median divides a triangle into two parts of equal areas.

Proof :



It is given that $ar(\triangle ABC) = 46$ sq.units

Also, AD bisects BC, let $BC = 2x$ units $\Rightarrow BD = \frac{2x}{2} = x$ units

$$\therefore \frac{ar(\triangle ABD)}{ar(\triangle ABC)} = \frac{\frac{1}{2} \times (AB) \times (BD)}{\frac{1}{2} \times (AB) \times (BC)}$$

$$\Rightarrow \frac{\triangle}{46} = \frac{x}{2x}$$

$$\Rightarrow \triangle = \frac{46}{2} = 23 \text{ sq.units}$$

\Rightarrow Ans - (B)

Question 7

X and Y give an exam. Difference of their marks is 45 and the difference of their marks is 15% of the maximum marks. What is the maximum marks for the exam?

- A 180
- B 450
- C 150
- D 300

Answer: D

Explanation:

Difference of marks of X and Y = 45

Also, Difference of their marks = 15% of the maximum marks

$$\Rightarrow \text{Max marks} = \frac{45}{15} \times 100 = 300$$

\Rightarrow Ans - (D)

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Question 8

If $P : Q : R = 6 : 7 : 8$ and $R : S = 3 : 5$, then what is $P : S$?

- A 18 : 25
- B 9 : 20
- C 11 : 24
- D 16 : 45

Answer: B

Explanation:

Given = $P : Q : R = 6 : 7 : 8$ -----(i)

and $R : S = 3 : 5$ -----(ii)

Multiplying equation (i) by 3 and equation (ii) by 8, we get :

=> $P : Q : R = 18 : 21 : 24$ and $R : S = 24 : 40$

Since, R is same in both, => $P : S = 18 : 40 = 9 : 20$

=> Ans - (B)

Question 9

In what ratio must a mixture of 11% sugar strength be mixed with that of 25% sugar strength so as to get a new mixture of 13% sugar strength?

- A 5 : 1
- B 6 : 1
- C 7 : 2
- D 10 : 3

Answer: B

Explanation:

Let x units of 11% sugar strength be mixed y units of of 25% sugar strength.

According to ques,

$$\Rightarrow 11x + 25y = 13(x + y)$$

$$\Rightarrow 11x + 25y = 13x + 13y$$

$$\Rightarrow 13x - 11x = 25y - 13y$$

$$\Rightarrow 2x = 12y$$

$$\Rightarrow \frac{x}{y} = \frac{12}{2} = \frac{6}{1}$$

∴ Required ratio = 6 : 1

=> Ans - (B)

Question 10

What is the average of 90, 250, 240, 204, and 616?

- A 280
- B 210
- C 230
- D 255

Answer: A

Explanation:

Sum of numbers = $90 + 250 + 240 + 204 + 616 = 1400$

$$\Rightarrow \text{Average} = \frac{1400}{5} = 280$$

\Rightarrow Ans - (A)

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Question 11

A sum of money invested at simple interest becomes $\frac{13}{10}$ of itself in 2 years and 6 months. What is the rate (in percentage) of interest per annum?

A 10

B 15

C 12

D 18

Answer: C

Explanation:

Let sum of money invested = Rs. $100x$

$$\Rightarrow \text{Amount under simple interest} = \frac{13}{10} \times 100x = \text{Rs. } 130x$$

Thus, simple interest = $130x - 100x = \text{Rs. } 30x$

Let rate of interest = $r\%$ and time period = 2.5 years

$$\Rightarrow \text{Simple interest} = \frac{P \times R \times T}{100}$$

$$\Rightarrow \frac{100x \times r \times 2.5}{100} = 30x$$

$$\Rightarrow 2.5r = 30$$

$$\Rightarrow r = \frac{30}{2.5} = 12\%$$

\Rightarrow Ans - (C)

Question 12

The ratio of the cost price and selling price of an article is 5 : 3. What is the loss percentage?

A 40

B 20

C 66.66

D 33.33

Answer: A

Explanation:

Ratio of cost price and selling price of an article = 5 : 3

Let Cost price = $x = 5$ and selling price = $y = 3$

$$\Rightarrow \text{Loss \%} = \frac{(x-y)}{x} \times 100$$

$$= \frac{(5-3)}{5} \times 100$$

$$= 2 \times 20 = 40\%$$

=> Ans - (A)

Question 13

A shopkeeper offers the following 3 schemes. Which scheme has the maximum discount percentage?

I. Two successive discounts of 30% and 20%

II. Buy 4 get 7

III. Buy 4 get 3 free

- A Only I
- B Only III
- C Only II and III
- D All are equal.

Answer: A

Explanation:

Let marked price = Rs. 100

Scheme I : After 1st discount of 30%, effective price = $100 - \left(\frac{30}{100} \times 100\right) = Rs. 70$

Similarly, after 2nd discount of 20%, effective price = $70 - \left(\frac{20}{100} \times 70\right) = Rs. 56$

=> Discount offered = $\frac{(100-56)}{100} \times 100 = 44\%$

Scheme II : Marked price of 7 = Rs. 700 and selling price of 4 = Rs. 400

=> Discount % = $\frac{(700-400)}{700} \times 100 = 42.85\%$

Scheme III : Marked price of 7 = Rs. 700 and selling price of 4 = Rs. 400

=> Discount % = $\frac{(700-400)}{700} \times 100 = 42.85\%$

∴ **Scheme I** has the highest discount percentage.

=> Ans - (A)

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Question 14

If $4^x = \sqrt[7]{1024}$, then what is the value of X ?

- A $\frac{5}{7}$
- B $\frac{4}{7}$
- C $\frac{3}{7}$
- D $\frac{6}{7}$

Answer: A

Explanation:

$$\text{Expression : } 4^x = \sqrt[7]{1024}$$

$$\Rightarrow 4^x = \sqrt[7]{2^{10}}$$

$$\Rightarrow 4^x = \sqrt[7]{4^5}$$

$$\Rightarrow 4^x = 4^{\frac{5}{7}}$$

$$\Rightarrow x = \frac{5}{7}$$

\Rightarrow Ans - (A)

Question 15

12 men or 30 boys can complete a work in 72 days. How many days will 48 men and 24 boys will take to complete the same work?

A 20

B 18

C 15

D 25

Answer: C

Explanation:

Let time taken by 1 man to complete unit work = m and by 1 boy = b

$$12 \text{ men complete the work in 72 days, } \Rightarrow m = \frac{1}{12 \times 72}$$

$$\text{Similarly, } b = \frac{1}{30 \times 72}$$

Now, time taken by 48 men and 24 boys to complete unit work = $48m + 24b$

$$= (48 \times \frac{1}{12 \times 72}) + (24 \times \frac{1}{30 \times 72})$$

$$= \frac{1}{18} + \frac{1}{90}$$

$$= \frac{5+1}{90} = \frac{1}{15}$$

\therefore No. of days taken to finish the work = 15

\Rightarrow Ans - (C)

Question 16

A train starts moving from a place P at 10:00 a.m. and arrives at another place Q at 5:30 p.m. on the same day. If the speed of the train is 50 km/hr, then what will be the distance (in km) covered by the train?

A 424

B 390

C 375

D 225

Answer: C

Explanation:

Speed of train = 50 km/hr

Time taken from 10:00 a.m. to 5:30 p.m. = 7.5 hours

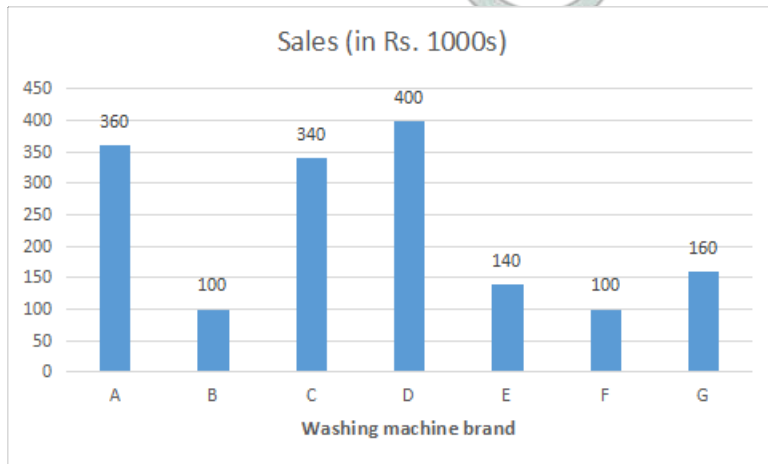
$$\Rightarrow \text{Distance covered} = 50 \times 7.5 = 375 \text{ km}$$

\Rightarrow Ans - (C)

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Instructions

The bar graph shows 1 month's sales figures of different brands of washing machines of a certain electronics store in Rs 1000s. Study the diagram and answer the following questions.



Question 17

Sales of which washing machine brand were the second highest?

- A G
- B D
- C C
- D A

Answer: D

Explanation:

Sales of washing machine brand A were the second highest = Rs. 360,000

=> Ans - (D)

Question 18

What is the ratio of sales of brand G to that of brand A?

- A 9 : 4
- B 1 : 2
- C 2 : 1
- D 4 : 9

Answer: D

Explanation:

Sales of brand G (in Rs. 000's) = 160

Sales of brand A (in Rs. 000's) = 360

=> Required ratio = $\frac{160}{360} = 4 : 9$

=> Ans - (D)

Question 19

Sales of brand D was greater than that of brand B by _____.

- A 300%
- B 75%
- C 100%
- D 200%

Answer: A

Explanation:

Sales of brand D (in Rs. 1000's) = 400

Sales of brand B (in Rs. 1000's) = 100

$$\Rightarrow \text{Required \%} = \frac{(400-100)}{100} \times 100 = 300\%$$

\Rightarrow Ans - (A)

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Question 20

If the sales figures are exclusive of tax then at the rate of 18% tax how much is the tax to be paid (in Rs) on the sales of all the 7 brands of washing machines?

- A 28,800
- B 2,70,000
- C 2,88,000
- D 27,000

Answer: C

Explanation:

Sales of all 7 brands (in Rs. 000's)

$$= 360 + 100 + 340 + 400 + 140 + 100 + 160 = 1600$$

Tax = 18%

$$\Rightarrow \text{Total tax to be paid} = \frac{18}{100} \times 16,00,000$$

$$= 18 \times 16,000 = \text{Rs. } 2,88,000$$

\Rightarrow Ans - (C)

Instructions

For the following questions answer them individually

Question 21

The area of a square is 42.25cm^2 . Find its perimeter (in cm).

- A 52
- B 26
- C 28

D 56

Answer: B

Explanation:

Let side of square = s cm

$$\Rightarrow \text{Area} = s^2 = 42.25$$

$$\Rightarrow s = \sqrt{42.25} = 6.5 \text{ cm}$$

$$\therefore \text{Perimeter of square} = 4s = 4 \times 6.5 = 26 \text{ cm}$$

\Rightarrow Ans - (B)

Question 22

If the perimeter of a semicircle is 72 cm, then find its area (*in cm²*).

A 308

B 616

C 160

D 320

Answer: A

Explanation:

Let radius of semi circle = r cm

$$\Rightarrow \text{Perimeter of semi circle} = \pi r + 2r = 72$$

$$\Rightarrow r\left(\frac{22}{7} + 2\right) = 72$$

$$\Rightarrow r\left(\frac{22+14}{7}\right) = 72$$

$$\Rightarrow r = 72 \times \frac{7}{36} = 14 \text{ cm}$$

$$\therefore \text{Area of semi-circle} = \frac{1}{2}\pi r^2$$

$$= \frac{1}{2} \times \frac{22}{7} \times (14)^2$$

$$= 22 \times 14 = 308 \text{ cm}^2$$

\Rightarrow Ans - (A)

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Question 23

The volume of a cube is 274.625cm^3 . Find its side (in cm).

A 7.5

B 6.5

C 5.5

D 3.5

Answer: B

Explanation:

Let side of cube = a cm

Volume of cube = $a^3 = 274.625$

$\Rightarrow a = \sqrt[3]{6.5 \times 42.25}$

$\Rightarrow a = 6.5 \text{ cm}$

\Rightarrow Ans - (B)

Question 24

$\triangle XYZ$ is right angled at Y. If $m\angle X = 45^\circ$, then find the value of $(\operatorname{cosec}Z + \frac{\sqrt{3}}{2})$.

A $\frac{(2\sqrt{2}+\sqrt{3})}{2}$

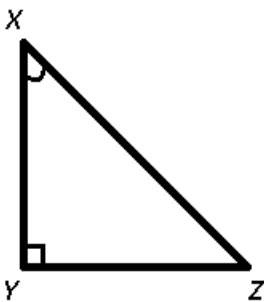
B $\frac{5}{6}$

C $\frac{(1+2\sqrt{3})}{2}$

D $\frac{(\sqrt{2}+1)}{\sqrt{2}}$

Answer: A

Explanation:



Sum of angles of $\triangle XYZ = \angle X + \angle Y + \angle Z = 180^\circ$

$\Rightarrow 45^\circ + 90^\circ + \angle Z = 180^\circ$

$\Rightarrow \angle Z = 180^\circ - 135^\circ = 45^\circ$

To find : $(\operatorname{cosec}Z + \frac{\sqrt{3}}{2})$

$= \operatorname{cosec}(45^\circ) + \frac{\sqrt{3}}{2}$

$= \sqrt{2} + \frac{\sqrt{3}}{2}$

$= \frac{(2\sqrt{2}+\sqrt{3})}{2}$

\Rightarrow Ans - (A)

Question 25

$\triangle XYZ$ is right angled at Y. If $\sin X = \frac{4}{5}$, then what is the value of $\cos Z$?

A $\frac{3}{4}$

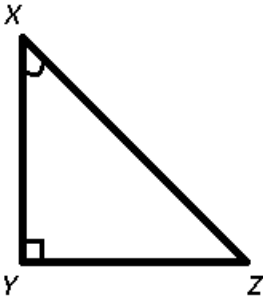
B $\frac{5}{3}$

C $\frac{4}{5}$

D $\frac{4}{3}$

Answer: C

Explanation:



Given : $\sin X = \frac{4}{5}$

Also, $\sin X = \frac{YZ}{XZ} = \frac{4}{5}$

Let $YZ = 4$ cm and $XZ = 5$ cm

To find : $\cos Z = \frac{YZ}{XZ}$

$= \frac{4}{5}$

=> Ans - (C)

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Reasoning

Instructions

For the following questions answer them individually

Question 26

In the following question, select the related word pair from the given alternatives.

Ship : Water :: ? : ?

- A Track : Train
- B Truck : Road
- C Land : Lion
- D Road : Cycle

Answer: B

Explanation:

Expression = Ship : Water :: ? : ?

The first is the mode of transmission and the second is the medium it runs on, i.e. ship sails on water, similarly truck runs on roads.

=> Ans - (B)

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Question 27

In the following question, select the related number pair from the given alternatives.

45 : 60 :: ? : ?

- A 25 : 30

B 65 : 90

C 35 : 45

D 55 : 70

Answer: D

Explanation:

Expression = $45 : 60 :: ? : ?$

The difference between the numbers = $60 - 45 = 15$

Similarly, only the difference between $70 - 55 = 15$

=> Ans - (D)

Question 28

In the following question, select the related letter pair from the given alternatives.

MCG : NDH :: ? : ?

A IOT : JPU

B JMP : LOR

C RTP : SUR

D FPL : GQN

Answer: A

Explanation:

Expression = MCG : NDH :: ? : ?

The pattern followed is :

M	C	G
(+1)	(+1)	(+1)
N	D	H

Similar pattern is observed only in = IOT : JPU

I	O	T
(+1)	(+1)	(+1)
J	P	U

=> Ans - (A)

Question 29

In the following question, select the odd word from the given alternatives.

A Dollar

B Peso

C Euro

D Ounce

Answer: D

Explanation:

All except **Ounce** are names of currencies, while Ounce is a unit of weight, hence it is the odd one.

=> Ans - (D)

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Question 30

In the following question, four number pairs are given. The number on left side of (-) is related to the number on the right side of (-) with some Logic/Rule/Relation. Three are similar on basis of same Logic/Rule/Relation. Select the odd one out from the

A 29 - 34

B 32 - 37

C 34 - 39

D 24 - 28

Answer: D

Explanation:

The difference between each of the pair of numbers is 5.

But in the last option => $28 - 24 = 4$

Thus, (24 - 28) is the odd one out.

=> Ans - (D)

Question 31

In the following question, select the odd letter/letters from the given alternatives.

A BDF

B LNP

C TVX

D JLP

Answer: D

Explanation:

(A) : B (+2 letters) = D (+2 letters) = F

(B) : L (+2 letters) = N (+2 letters) = P

(C) : T (+2 letters) = V (+2 letters) = X

(D) : J (+2 letters) = L (+4 letters) = P

=> Ans - (D)

Question 32

Arrange the given words in the sequence in which they occur in the dictionary.

1. Wan
2. Want
3. Walker
4. Wag
5. Wake

A 41523

B 45312

C 51243

D 34521

Answer: B

Explanation:

As per the order of dictionary :

= Wag -> Wake -> Walker -> Wan -> Want

≡ 45312

=> Ans - (B)

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Question 33

In the following question, select the missing number from the given series.

9, 16, 13, 12, 17, 8, ?, ?

A 21, 4

B 4, 21

C 9, 12

D 12, 18

Answer: A

Explanation:

Series : 9, 16, 13, 12, 17, 8, ?, ?

The pattern followed is that in the alternate series '4' is added and subtracted respectively.

Odd Series : $9 (+4) = 13 (+4) = 17 (+4) = 21$

Even series : $16 (-4) = 12 (-4) = 8 (-4) = 4$

Thus, missing numbers = **21, 4**

=> Ans - (A)

Question 34

A series is given with one term missing. Select the correct alternative from the given ones that will complete the series.

FL, IO, LR, ?, RX

A OP

B OU

C PS

D QT

Answer: B

Explanation:

Series : FL, IO, LR, ?, RX

The pattern followed in each letter of the terms is :

1st letter : F (+3 letters) = I (+3 letters) = L (+3 letters) = O (+3 letters) = R

2nd letter : L (+3 letters) = O (+3 letters) = R (+3 letters) = U (+3 letters) = X

Thus, missing term = **OU**

=> Ans - (B)

Question 35

Present age of Vikas and Raman are in the ratio of 6 : 5 respectively. If the present age of Rohan is 98 years and the present age of Vikas is $\frac{3}{7}$ of the present age of Rohan, then after how many years the ages of Vikas and Raman would be in the ratio of 7 : 6?

A 6

B 7

C 5

D 8

Answer: B

Explanation:

Rohan's present age = 98 years

=> Vikas's present age = $\frac{3}{7} \times 98 = 42$ years

Ratio of present age of Vikas and Raman = 6 : 5

=> Raman's present age = $\frac{5}{6} \times 42 = 35$ years

Let after x years, the ages of Vikas and Raman would be in the ratio = 7 : 6

=> $\frac{42+x}{35+x} = \frac{7}{6}$

=> $252 + 6x = 245 + 7x$

=> $7x - 6x = 252 - 245$

=> $x = 7$

∴ After 7 years, the ages of Vikas and Raman would be in the ratio of 7 : 6

=> Ans - (B)

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Question 36

From the given alternatives, select the word which CANNOT be formed using the letters of the given word.

Headstrong

A Gang

B Head

C Sead

D Strong

Answer: A

Explanation:

The word HEADSTRONG contains only one 'G', thus the term **Gang** cannot be formed.

=> Ans - (A)

Question 37

In a certain code language, "LATIN" is written as "ODWLQ". How is "ROUTE" written in that code language?

- A HWXRU
- B URXWH
- C HTZAH
- D VRVLH

Answer: B

Explanation:

"LATIN" is written as "ODWLQ"

The pattern followed is :

L	A	T	I	N
(+3)	(+3)	(+3)	(+3)	(+3)
O	D	W	L	Q

Similarly, for ROUTE :

R	O	U	T	E
(+3)	(+3)	(+3)	(+3)	(+3)
U	R	X	W	H

=> Ans - (B)

Question 38

In a certain code language, 'x' represents '+', '÷' represents 'x', '-' represents '÷' and '+' represents '-'. Find out the answer to the following question.

$$13 + 8 \times 2 \div 25 - 10 = ?$$

- A 46
- B 10
- C 49
- D 19

Answer: B

Explanation:

Expression : $13 + 8 \times 2 \div 25 - 10 = ?$

$$\equiv 13 - 8 + 2 \times 25 \div 10$$

$$= 5 + \frac{50}{10}$$

$$= 5 + 5 = 10$$

=> Ans - (B)

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Question 39

The following equation is incorrect. Which two signs should be interchanged to correct the equation?

$$26 - 2 \times 30 \div 6 + 16 = 20$$

- A \div and \times
- B $-$ and $+$
- C \times and $-$
- D \div and $-$

Answer: B

Explanation:

Expression : $26 - 2 \times 30 \div 6 + 16 = 20$

(A) : \div and \times

$$\begin{aligned} \text{L.H.S.} &= 26 - 2 \div 30 \times 6 + 16 \\ &= 26 - \frac{12}{30} + 16 = 41.6 \neq \text{R.H.S.} \end{aligned}$$

(B) : $-$ and $+$

$$\begin{aligned} \text{L.H.S.} &= 26 + 2 \times 30 \div 6 - 16 \\ &= 26 + \frac{60}{6} - 16 = 20 = \text{R.H.S.} \end{aligned}$$

=> Ans - (B)

Question 40

If $3!5 = 30$, $6!1 = 12$ and $5!8 = 80$, then find the value of $2!2 = ?$

- A 28
- B 12
- C 8
- D 32

Answer: C

Explanation:

Given : $3!5 = 30$, $6!1 = 12$ and $5!8 = 80$

If we replace '!' with 'x' and also multiply the final result with '2', then we will get the desired result.

$$\text{Eg :- } 2(3 \times 5) = 30$$

$$\text{and } 2(6 \times 1) = 12 \text{ and } 2(5 \times 8) = 80$$

$$\text{Similarly, } 2(2 \times 2) = 8$$

=> Ans - (C)

Question 41

Which of the following terms follows the trend of the given list?

XXXXXXY, XXXXXYY, XXXXYYY, XXXYYYY, XXYYYYY, _____.

- A XXXXXXXX
- B XXXXXXXY
- C XYYYYYY
- D XXXXXYY

Answer: C

Explanation:

Expression : XXXXXY, XXXXY, XXXYY, XXXYYY, XYY, _____.

The pattern followed is that each term is a combination 'XY' (7 letters), and the number of X's starting from left are decreasing and also number of Y's starting from right end are increasing one at a time.

Thus, in the missing term, the second term will also be 'Y' = XYYYYY

=> Ans - (C)

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Question 42

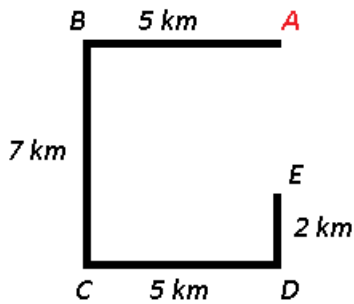
A school bus travels 5 km West, then turns South and travels 7 km, then turns East and travels 5 km, then turns to its left and travels 2 km. Where is it now with respect to the starting position?

- A 5 km South
- B 9 km South
- C 5 km North
- D 9 km North

Answer: A

Explanation:

Let the school bus starts from point A and travels 5 km West to reach B, then turns South and travels 7 km to reach C, then turns East and travels 5 km to reach D, then turns to its left and travels 2 km towards north to stop at point E.



=> $AE = 7 - 2 = 5$ km

∴ Now it is **5 km south** with respect to the starting position.

=> Ans - (A)

Question 43

In the question two statements are given, followed by two conclusions, I and II. You have to consider the statements to be true even if it seems to be at variance from commonly known facts. You have to decide which of the given conclusions, if any, follows from the given statements.

Statement I: All cards are labels

Statement II: No posters are labels

Conclusion I: No cards are posters

Conclusion II: Some posters are cards

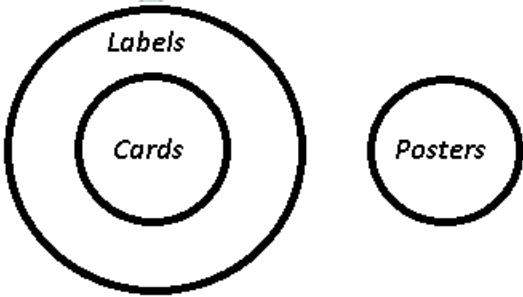
- A Only conclusion I follows
- B Only conclusion II follows
- C Both conclusions I and II follow

D Neither conclusion I nor conclusion II follows

Answer: A

Explanation:

The venn diagram for above statements is :



Conclusion I: No cards are posters = true

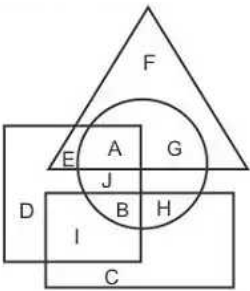
Conclusion II: Some posters are cards = false

Thus, only conclusion I follows.

=> Ans - (A)

Question 44

In the following figure, rectangle represents Web designers, circle represents Bloggers, triangle represents Photographers and square represents Cricketers. Which set of letters represents Web designers who are Cricketers?



A BH

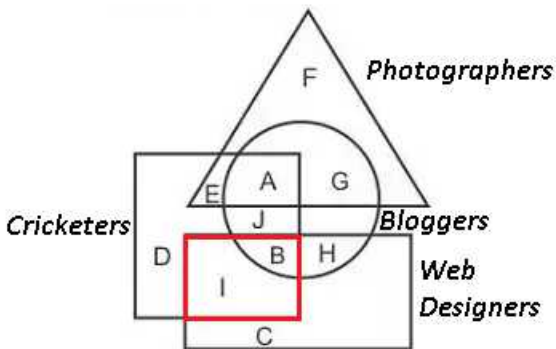
B IB

C AG

D EA

Answer: B

Explanation:



Web designers who are Cricketers are represented by = IB

=> Ans - (B)

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Question 45

A series is given with one term missing. Select the correct alternative from the given ones that will complete the series.

HRA, GQZ, FPY, EOX, ?

- A DNW
- B EMX
- C EOY
- D CMV

Answer: A

Explanation:

Series : HRA, GQZ, FPY, EOX, ?

The pattern followed in each letter of the terms is :

1st letter : H (-1 letter) = G (-1 letter) = F (-1 letter) = E (-1 letter) = D

2nd letter : R (-1 letter) = Q (-1 letter) = P (-1 letter) = O (-1 letter) = N

3rd letter : A (-1 letter) = Z (-1 letter) = Y (-1 letter) = X (-1 letter) = W

Thus, missing term = **DNW**

=> Ans - (A)

Question 46

In the following question, select the missing number from the given series.

2, 5, 9, 14, 20, ?

- A 26
- B 27
- C 30
- D 31

Answer: B

Explanation:

Consecutive integers are added.

$$2 + 3 = 5$$

$$5 + 4 = 9$$

$$9 + 5 = 14$$

$$14 + 6 = 20$$

$$20 + 7 = 27$$

=> Ans - (B)

Question 47

In the following question, four groups of three numbers are given. In each group the second and third number are related to the first number by a Logic/Rule/Relation. Three are similar on basis of same Logic/Rule/Relation. Select the odd one out from the given alternatives.

A (3, 12, 14)

B (4, 16, 13)

C (6, 24, 19)

D (5, 20, 16)

Answer: A

Explanation:

The numbers are of the form : $(x, 4x, 3x + 1)$

But in the first option, we have $= 3 \times 3 + 1 = 10 \neq 14$

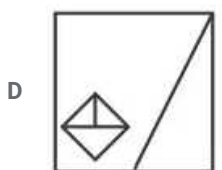
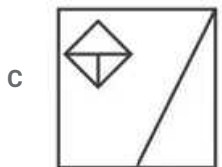
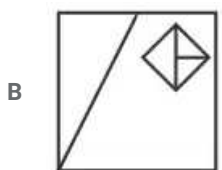
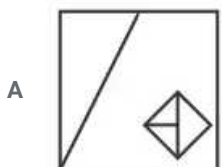
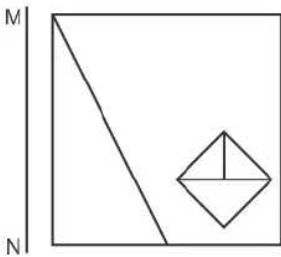
Thus, (3, 12, 14) is the odd one out.

=> Ans - (A)

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Question 48

If a mirror is placed on the line MN, then which of the answer figures is the right image of the given figure?



Answer: D

Explanation:

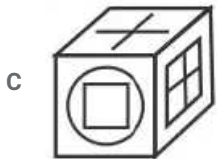
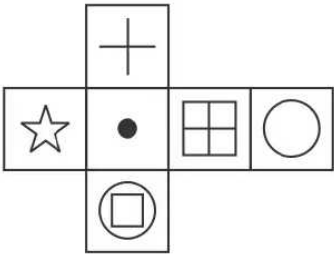
A vertical mirror is placed, so the object on the left will appear right in reverse position and vice-versa.

So the rhombus which is at the bottom right side of square in the question figure will now appear at bottom left side, hence fourth option is the right image since it is the only one which fits above description.

=> Ans - (D)

Question 49

Which of the following cube in the answer figure cannot be made based on the unfolded cube in the question figure?



Answer: C

Explanation:

When we fold the given figure, the square with a 'dot' sign will become the base of the cube and the side with only 'circle' sign will become top, and thus they will face each other. Similarly, the sides which will face each other will be :



Since, the opposite sides cannot be adjacent in the cube, thus the cube in the third option is not possible.

=> Ans - (C)

Question 50

A word is represented by only one set of numbers as given in any one of the alternatives. The sets of numbers given in the alternatives are represented by two classes of alphabets as shown in the given two matrices. The columns and rows of Matrix-I are numbered from 0 to 4 and that of Matrix-II are numbered from S to 9. A letter from these matrices can be represented first by its row and next by its column, for example 'B' can be represented by 41, 32 etc and 'Z' can be represented by 57, 98 etc. Similarly, you have to identify the set for the word 'FARM'.

Matrix - I					
	0	1	2	3	4
0	I	B	A	G	J
1	C	H	G	C	M
2	H	F	I	G	M
3	C	K	B	A	F
4	F	B	F	G	J

Matrix - II					
	5	6	7	8	9
5	Y	Y	Z	U	Q
6	Y	Y	U	O	V
7	Q	Y	Q	X	X
8	O	T	P	O	R
9	V	U	X	Z	N

- A 23,69,13,87
- B 21,33,89,24
- C 20,97,12,65
- D 14,79,32,65

Answer: B

Explanation:

- (A) : 23,69,13,87 = GVCP
 - (B) : 21,33,89,24 = **FARM**
 - (C) : 20,97,12,65 = HXGY
 - (D) : 14,79,32,65 = MXBM
- => Ans - (B)

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English

Instructions

For the following questions answer them individually

Question 51

In the following question, some part of the sentence may have errors. Find out which part of the sentence has an error and select the appropriate option. If a sentence is free from error, select 'No Error'.

I was (a) a pilot (b) here a month ago. (c) No error (d)

- A a
- B b
- C c
- D d

Answer: D

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Question 52

In the following question, some part of the sentence may have errors. Find out which part of the sentence has an error and select the appropriate option. If a sentence is free from error, select 'No Error'.

The scientific need for simple, stable and internationally (a) accepted systems for naming objects of the natural world has been (b) generated many formal nomenclatural systems. (c) No error (d)

- A a
- B b
- C c
- D d

Answer: B

Question 53

In the following question, the sentence given with blank to be filled in with an appropriate word. Select the correct alternative out of the four and indicate it by selecting the appropriate option.

He was not ready _____ the promotion.

- A for
- B in
- C of
- D because

Answer: A

Question 54

In the following question, the sentence given with blank to be filled in with an appropriate word. Select the correct alternative out of the four and indicate it by selecting the appropriate option.

One can understand the importance of faith by _____ a world without faith.

- A discovering
- B identifying
- C imagining
- D interpreting

Answer: C

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Question 55

In the following question, out of the given four alternatives, select the one which best expresses the meaning of the given word.

Terse

- A Brief

- B Prolix
- C Lengthy
- D Wordy

Answer: A

Question 56

In the following question, out of the given four alternatives, select the one which best expresses the meaning of the given word.

Poignant

- A Emotional
- B Soothing
- C Cold
- D Luxurious

Answer: A

Question 57

In the following question, out of the given four alternatives, select the one which is opposite in meaning of the given word.

Usurp

- A Annex
- B Displace
- C Grab
- D Surrender

Answer: D

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Question 58

In the following question, out of the given four alternatives, select the one which is opposite in meaning of the given word.

Clammy

- A Sweaty
- B Wet
- C Misty
- D Dry

Answer: D

Question 59

Rearrange the parts of the sentence in correct order.

During the restoration,

P : ancient institutions were to

Q : changing but traditional society

R : be the corner stones of a

A QPR

B PRQ

C RQP

D PQR

Answer: B

Question 60

A sentence has been given in Active/Passive Voice. Out of the four given alternatives, select the one which best expresses the same sentence in Passive/Active Voice.

She saw you and her.

A You and she was seen by her.

B You and she were seen by her.

C You and she seen by her.

D You and she see by her.

Answer: A

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Question 61

A sentence has been given in Direct/Indirect Speech. Out of the four given alternatives, select the one which best expresses the same sentence in Indirect/Direct Speech.

"Run away, children," said their uncle.

A The uncle asked them to run away.

B The uncle wanted them to run away.

C Their uncle told the children to run away.

D Their uncle say run away, children.

Answer: C

Question 62

In the following question, a word has been written in four different ways out of which only one is correctly spelt. Select the correctly spelt word.

A Millennium

- B Milenium
- C Millennium
- D Millenium

Answer: C

Instructions

In the following passage, some of the words have been left out. Read the passage carefully and select the correct answer for the given blank out of the four alternatives.

Teachers worldwide are stuck in a constant balancing _____ between individual liberty and occupational obligations. The Indian teacher is _____ stuck in tremendous technological, political and sociocultural changes, which are having _____ impact on performance and lifestyle. It goes without saying that teachers in India need to redefine and adjust their _____ to develop transformational and humane skills by helping bridge the deep-rooted _____ distance between the teacher and the taught.

Question 63

constant balancing _____ between individual liberty

- A act
- B acts
- C acting
- D actor

Answer: A

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Question 64

Indian teacher is _____ stuck in tremendous technological,

- A also
- B too
- C all
- D very

Answer: A

Question 65

which are having _____ impact on performance

- A a
- B the
- C an
- D one

Answer: C

Question 66

and adjust their _____ to develop transformational

- A think
- B thoughtful
- C thought
- D thinking

Answer: D

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Question 67

the deep-rooted _____ distance between the

- A psychology
- B psychological
- C psychologically
- D psychologise

Answer: B

Instructions

For the following questions answer them individually

Question 68

In the following question, out of the four alternatives, select the alternative which best expresses the meaning of the idiom/phrase.

Choose a soft option

- A Choose a comfortable place to spend the night.
- B Target the weaker players to win the match.
- C Do the thing that is easiest or least likely to cause trouble in a particular situation.
- D Always choose comfort over hardship.

Answer: C

Question 69

In the following question, out of the four alternatives, select the alternative which best expresses the meaning of the idiom/phrase.

Achilles' heel

- A A weakness which turns out to be a strength.
- B A weakness or vulnerable point.
- C A strength which eventually becomes your weakness.

D The point where you have converted your weakness into your strength.

Answer: B

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Question 70

In the following question, out of the four alternatives, select the alternative which is the best substitute of the words/sentence.

Concern for one's own area or region at the expense of national or supranational unity

- A Eschew
- B Immolation
- C Cede
- D Provincialism

Answer: D

Question 71

In the following question, out of the four alternatives, select the alternative which is the best substitute of the words/sentence.

A small piece of burning or glowing coal or wood in a dying fire

- A Lumber
- B Copse
- C Grove
- D Ember

Answer: D

Question 72

In the following question, out of the four alternatives, select the alternative which will improve the bracketed part of the sentence. In case no improvement is needed, select "no improvement".

By now that garden (had been reduced) to an insignificant muddy patch.

- A has to reduced
- B have been reduced
- C had been reducing
- D no improvement

Answer: D

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Question 73

In the following question, out of the four alternatives, select the alternative which will improve the bracketed part of the sentence. In case no improvement is needed, select "no improvement".

We could not afford (to paying) the entire sum.

- A paid
- B pays
- C to pay
- D no improvement

Answer: C

Question 74

The question below consists of a set of labelled sentences. Out of the four options given, select the most logical order of the sentences to form a coherent paragraph.

On inquiry at the
A-that there were several through
B-railway station we were informed
C-trains to Dehradun every day

- A BAC
- B ACB
- C ABC
- D CBA

Answer: A

Question 75

In the following question, four words are given out of which one word is correctly spelt. Select the correctly spelt word.

- A orientasion
- B oriantasion
- C oriantation
- D orientation

Answer: D

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General Awareness

Instructions

For the following questions answer them individually

Question 76

A growing country is one with _____ there.

- A rising GNP at constant prices
- B rising GNP at current prices
- C constant GNP at constant prices
- D No option is correct.

Answer: A

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Question 77

The per capita income in India was ` 20 in 1867-68, was ascertained for the first time by_____.

- A MG Ranade
- B Sir W Hunter
- C RC Dutt
- D Dadabhai Naoroji

Answer: D

Question 78

Which of the following rulers was not related to Sangam State Chear?

- A Nedeon
- B Udayin Jarral
- C Nedunjaral
- D Nedum

Answer: A

Question 79

Which of the following state was not included in the empire of Akbar?

- A Kabul
- B Awadh
- C Lahore
- D Bijapur

Answer: D

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Question 80

In which month does the Earth's Perihelion position occur?

- A June
- B January
- C September
- D March

Answer: A

Question 81

The McMahon Line, which sets the boundary between India and China, is drawn to the northern boundary of which of the following states?

- A Jammu and Kashmir
- B Uttar Pradesh
- C Himachal Pradesh
- D Arunachal Pradesh

Answer: D

Question 82

Who was the Guru of the music maestro Tansen?

- A Bisaldev
- B Haridas
- C Saint Gyaneshwar
- D Ramanuj

Answer: B

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Question 83

At which place a joint military exercise named 'SAMPRITI' was held in November 2017 between Bangladesh and India?

- A Mizoram
- B Madhya Pradesh
- C West Bengal
- D No option is correct.

Answer: A

Question 84

Who among the following has been awarded the Arjuna award 2017 for his contribution to hockey?

- A S.V. Sunil

- B P.A. Rafel
- C Sardar Singh
- D Vikram Negi

Answer: A

Question 85

Myanmar is the _____ largest country in Southeast Asia.

- A second
- B third
- C fourth
- D fifth

Answer: A

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Question 86

Which among the following statements are TRUE regarding synthetic fibre?

- I. They melt after catching fire.
- II. They are more durable.
- III. They are prepared by a number of processes using petrochemicals.

- A Only I and II
- B Only I and III
- C Only II and III
- D All I, II and III

Answer: D

Question 87

Which of the following products can be obtained from coal processing?

- A Coke
- B Coal tar
- C Coal gas
- D All options are correct.

Answer: D

Question 88

Under which Article of Indian Constitution a citizen can move to the Supreme Court of India if his Fundamental Rights are breached?

- A Article 21

- B Article 1
- C Article 32
- D Article 226

Answer: C

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Question 89

For how much duration members of municipalities are elected?

- A Two years
- B Three years
- C Five years
- D Six years

Answer: C

Question 90

Which is NOT an example of organism that takes in whole food material and breaks it down inside its body?

- A Mushrooms
- B Fish
- C Snake
- D Lizards

Answer: A

Question 91

How many versions of each trait will be there in each child as per the rules for the inheritance of traits?

- A One
- B Two
- C Three
- D Four

Answer: B

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Question 92

In July 2017, the Government of India has increased the investment limit per fiscal year of 'Sovereign Gold Bonds Scheme' to _____ for individuals.

- A 5 kg

- B 4 kg
- C 6 kg
- D 10 kg

Answer: B

Question 93

The first flight of SARAS PT1N, the new upgraded version of indigenous developed transport aircraft SARAS, took off from _____.

- A Hyderabad
- B New Delhi
- C Bengaluru
- D Chennai

Answer: C

Question 94

In April 2017, the announcement was made to change the Base year for GDP Calculation. The new Base year will be _____.

- A 2011-12
- B 2015-16
- C 2017-18
- D 2016-17

Answer: C

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Question 95

On 10 April 2017, Lok Sabha passed Constitution (123rd Amendment) Bill, 2017. The Bill seeks to insert a new article 342-A which empowers whom to notify the list of socials educationally backward classes of that state/union territory?

- A Prime Minister
- B President
- C Vice President
- D Finance Minister

Answer: B

Question 96

A body of mass 3 kg accelerates from 10 m/s to 20 m/s in 5 seconds due to the application of a force on it. Calculate the magnitude of this force (in N).

- A 6
- B 18

C 12

D 36

Answer: A

Question 97

The shortest distance measured from the initial to the final position of an object is known as the ____

A motion

B direction

C velocity

D displacement

Answer: D

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Question 98

The weather reports are prepared by the _____ Department of the Government.

A Ecological

B Meteorological

C Economical

D Topological

Answer: B

Question 99

Which of the statements given below are correct ?

A) In 2017, Stephen Curry played for the NBA team Milwaukee Bucks.

B) Sebastian Vettel won the Formula One 2017 Singapore Grand Prix.

C) Roger Federer won the Tennis 2017 Miami Open Men's Singles.

A Only C

B B and C

C A and C

D A, B and C

Answer: A

Question 100

In Microsoft Word, File, edit, view etc. are provided in _____.

A Standard tool bar

B Menu bar

C Formatting toolbar

D Status bar

Answer: B

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